

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fixed resistors for use in electronic equipment –
Part 2: Sectional specification: Leaded fixed low power film resistors**

**Résistances fixes utilisées dans les équipements électroniques –
Partie 2: Spécification intermédiaire: Résistances fixes à broches à couches, à
faible dissipation**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED RESISTORS FOR USE IN ELECTRONIC EQUIPMENT –**Part 2: Sectional specification:
Leaded fixed low power film resistors**

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International Standard IEC 60115-2 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This third edition cancels and replaces the second edition, published in 1982, and it constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- it includes test conditions and requirements for lead-free soldering and assessment procedures meeting the requirements of a "zero defect" approach;
- it introduces a product classification based on application requirements;
- it includes an extension of the list of styles and dimensions;
- it includes the use of an extended scope of stability class definitions;
- it includes the extension of the lists of preferred values of ratings;

- it includes test conditions and requirements for lead-free soldering, for periodic overload and for resistance to electrostatic discharge (ESD);
- it includes a new set of severities for a shear test;
- it includes definitions for a test board;
- it includes the replacement of assessment level E and possible others by the sole assessment level EZ, meeting the requirements of a “zero defect” approach;
- it includes an extended endurance test, a flammability test, a temperature rise test, vibration tests, an extended rapid change of temperature test, and a single pulse high-voltage overload test;
- it includes requirements applicable to 0 Ω resistors (jumpers);
- it includes recommendations for the denomination, description, packaging and quality assessment of radial formed styles;
- it includes prescriptions for endurance testing at room temperature, supplementary to the rulings of IEC 60115-1.

The text of this standard is based on the following documents:

FDIS	Report on voting
40/2282/FDIS	40/2289/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

A list of all parts in the IEC 60115 series, published under the general title *Fixed resistors for use in electronic equipment*, can be found on the IEC website.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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